BRUHAT BANGALORE MAHANAGARA PALIKE

Name of the Work:- Providing Multi colour Shade lights at parks in ward no 03 & 04 of Yelahanka Sattelite Town Sub Division

Name of the Contractor: Sr.VinayKumar M;M/s Viny Enterprises

Sanctioned Estimate Amount: Rs. 7,500,000.00

Sanctioned Tender Amount: Rs. 7,867,381.00

Operative Tender Premium 4.90%

COMPARATIVE STATEMENT

	Description of Item	Unit	Sanctioned Estimate			As per Tender (BOQ)			Executed	Upto 125%			Above 125%			Total Amount as per actuals	Excess	Savings
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Qty	Rate	Amount	Qty	Rate	Amount			
	Supply,Installation,TestingandCommissioningofLEDRGB/RGBWfloodlightingluminaireforfacadelightingwithDie-cast aluminiumhousing, powder-coatedfinish,offollowingwattage Luminaireshallbecapableofproducingdynamiccolorchanginglightforwith16millioncolorsbyDMX/Ethernetbasedcontrol Thebeamangleofthefittingshallbenarrow, medium,wideorasymmetricaspertherequirement Luminaireshallbecompletewithdriverandcapableofoperatingatlinevoltagewithoutanyseparatepowersupplyfrom100-270VAC,50Hzwithpowerfactor>0.9 Fixtureshallbesuitabletooperateatanambienttemperaturerangeof 10°Cto+50°CandshallbeIP65andIK06rated Lifetimeshallbeatleast(L70 50000burninghoursat50°C Luminaireshallbeconformingto(IS10322)andshallbecompletewithallnecessaryaccessoriesrequiredforproperworkingoffixtureincludingweatherproofconnectioncables,waterproofconnectoretc. as required 75 W	Nos	40	49010.00	1960400.00	40	51411.49	2056459.60	51	50.00	51411.49	2570574.50	1.00	51411.49	51411.49	2621985.99	565526.39	0.00
4	140 Watts	Nos	21	75016.00	1575336.00	21	78691.78	1652527.38	28	26.00	78691.78	2045986.28	2.00	78691.78	157383.56	2203369.84	550842.46	0.00
11	30Watts	Nos	12	20019.00	240228.00	12	20999.93	251999.16	12	12.00	20999.93	251999.16	0.00	20999.93	0.00	251999.16	0.00	
1/15 5 1	Supply, installation, testing and commissioning of booster amplifier with power handling of 250 to 300 watt RMS 4ohms Dual and 100/70 volt output on bridge mode single channel Rack mountable Specs: frequency response : 20 htz to 20khtz	No	1.00	27550.00	27550.00	1.00	28899.95	28899.95	0	0.00	28899.95	0.00		28899.95	0.00	0.00	0.00	28899.95
1/15 / 1	Supply, installation, testing and commissioning of 4 to 6 Channel 4 mic/line input mixer with 2/3 band semi parametric eq 2 bus and 2 aux 2 stereo return	No	1.00	12800.00	12800.00	1.00	13427.20	13427.20	0	0.00	13427.20	0.00		13427.20	0.00	0.00	0.00	13427.20

AR	Supply, installation, testing and commissioning of out door garden speaker fitted with wide response and water resistant polypropylene speaker	Nos	12	17640.00	211680.00	12	18504.36	222052.32	0	0.00	18504.36	0.00		18504.36	0.00	0.00	0.00	222052.32
AR	Supply and Instalation of Automatic Show time unit & programming		2	30450.00	60900.00	2	31942.05	63884.10	1	1.00	31942.05	31942.05		31942.05	0.00	31942.05	0.00	31942.05
AR	Supply and Instalation of Master Controller The highlights of MasterLogic-200 PLC system are: • Powerful & Versatile CPU (high speed / memory, IEC programming etc)• Compact footprint (Rack room, cabinet space saver, shipping costs saver) • Modular options (power supply, range		2	276120.00	552240.00	2	289649.88	579299.76	1	1.00	289649.88	289649.88		289649.88	0.00	289649.88	0.00	289649.88
AR	Supply and Instalation of DMX Splitter, DMX Input x1, Output x4, Thru x1, 3/16" Threaded Hole for Clamp, Opto-Isolated		10	53690.00	536900.00	10	56320.81	563208.10	2	2.00	56320.81	112641.62		56320.81	0.00	112641.62	0.00	450566.48
AR	Supply and Instalation of custom computer or stand alone programmer for RGB lighting show	Set	1	176410.00	176410.00	1	185054.09	185054.09	1	1.00	185054.09	185054.09	0.00	185054.09	0.00	185054.09	0.00	0.00
AR	Custom Smart Lighting Design and Programming Smart Lighting Design Project Consulting fee -	sequences	10	125662.00	1256620.00	10	131819.44	1318194.40	3	3.00	131819.44	395458.32		131819.44	0.00	395458.32	0.00	922736.08
	Total Rs				6611064.00			6935006.06				5883305.90			208795.05	6092100.95	1116368.85	1959273.96
	PART B																	
54/9 1	Supplying and drawing UTP-CAT 6E LAN cable	Mtrs	720.00	29.00	20880.00	720.00	30.42	21902.40	720	720.00	30.42	21902.40	0.00	30.42	0.00	21902.40	0.00	0.00
57/10 3.2	Supplying, erecting, testing & commissioning of ON-LINE UPS system suitable for operation on 230V, 50Hz, A/C supply, with isolation transformer all accessories complete and Excluding batteries and wiring complete 3 KVA ON LINE UPS	Per Mtr	2	42480.00	84960.00	2	44561.52	89123.04	1	1.00	44561.52	44561.52	0.00	44561.52	0.00	44561.52	0.00	44561.52
58/10 5.9	Supplying, installation, testing & commissioning of 12V DC, AH batteries in poly propylene container for U P S Sealed maintenance free batteries 150 AH capacity	Nos	2	14100.00	28200.00	2	14790.90	29581.80	2	2.00	14790.90	29581.80	0.00	14790.90	0.00	29581.80	0.00	0.00
6.4 2	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2	Sqcm	300000	0.33	99000.00	300000	0.346	103800.00	119750	119750.00	0.346	41433.50	0.00	0.346	0.00	41433.50	0.00	62366.50

30/5 4 1 1	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron and M.S. flat with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint 40x40x6mm	Mtrs	200	255.00	51000.00	200	267.50	53500.00	198.00	198.00	267.50	52965.00	0.00	267.50	0.00	52965.00	0.00	535.00
2/1 1 3	Supplying heavy gauge PVC conduit pipe dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws 32mm dia 2.5mm thick	Mtrs	900	92.00	82800.00	900	96.51	86859.00	880	880.00	96.51	84928.80	0.00	96.51	0.00	84928.80	0.00	1930.20
18 6/2 5 9	Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to IS 8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100Volts **as per IS-694:1990 4C X 2.5Sq.mm**	Mtrs	1400	115.00	161000.00	1400	120.64	168896.00	1165	1165.00	120.64	140545.60	0.00	120.64	0.00	140545.60	0.00	28350.40
19 40/6 4 6	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1. Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm	Mtrs	1100	150.00	165000.00	1100	157.35	173085.00	675	675.00	157.35	106211.25	0.00	157.35	0.00	106211.25	0.00	66873.75
20 41/6 5 7	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required On wall /Structure 6 sqmm to 16 sqmm	Mtrs	1100	11.88	13068.00	1100	12.46	13706.00	675	675.00	12.46	8410.50	0.00	12.46	0.00	8410.50	0.00	5295.50
21 41/6 6 1	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete (As per Civil SR KSRB I-2, P-7)In soil (ordinary)	Mtrs	900	76.00	68400.00	900	79.72	71748.00	351	351.00	79.72	27981.72	0.00	79.72	0.00	27981.72	0.00	43766.28

22	6.17.6	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes 35 sqmm Long Barrel	Nos	900	12.44	11196.00	900	13.05	11745.00	700	700.00	13.05	9135.00	0.00	13.05	0.00	9135.00	0.00	2610.00
23	46/6.1.3.A.1	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947 (Icu = Ics) THREE POLE 100Amps25kA	Nos	2	4044.00	8088.00	2	4242.16	8484.32	2	2	4242.16	8484.32	0.00	4242.16	0.00	8484.32	0.00	0.00
		Total Rs				793592.00			832430.56				576141.41			0.00	576141.41	0.00	256289.15
		EXTRA ITEMS (EIRL)				0.00			0.00				0.00				0.00	0.00	0.00
24	13/4.2.8	Fabricating, supplying and erection of ..Mtrs long hot dip **Galvanized Octagonal pole** with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom ...mm, top....mm with 3mm thick, suitable base plate and 4Nos of ..long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc. (excluding foundation) as per drawing appended.5 meters - Top 70mm and bottom 130mm dia	Nos			0.00			0.00	27	27	7651.00	206577.00				206577.00	206577.00	0.00
5	SR of PWD 18-19 & Issue rates	Providing Rcc Pole pedstal of Size 0.3x0.3x1.2 Mtrs Including digging of pit, tor steel,templates ,Centring,1:4:8 base concrete,1:2:4 pedestal concrete and etc coplete as per the data sheet enclosed								27	27	1695.00	45765.00				45765.00	45765.00	0.00

	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit .... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia	No								1	1	2999.70	2999.70				2999.70	2999.70	0.00
	Total Rs												339347.70			0.00	339347.70	339347.70	
	Add GST 12% on Total												40721.72			0.00	40721.72	40721.72	0.00
	Total Rs												380069.42			0.00	380069.42	380069.42	0.00
	Approved Rates Including GST																0.00	0.00	0.00
	Supply,Installation,TestingandCommissioningofLEDRGB/RGBWLinearWallWasherluminaireforFacadelightingwithaluminiumextrudedhousing,offollowingwattage. Luminaireshallbecapableofproducingdynamiccolorchanginglightwith16millioncolorsbyDMX/Ethernetbasedcontrol.Thebeamangleofthefittingshallbenarrow,medium,wideorasymmetricasperthe requirement. Luminaireshallbecompletewithdriverandcapableofoperatingatlinevoltagewithoutanyseparatepowersupplyfrom100to270VAC,50Hz,powerfactor>0.9.Fixtureshallbesuitabletooperateatambienttemperaturerangeof-10°Cto+50°CandshallbeIP65andIK06rated.Lifetimeshouldbeatleast L70:50000burninghoursat50°C.Luminaireshallbeconformingto BIS and shall be complete with all necessary accessories required for proper working of fixture including weatherproof connection cables, waterproof connectors etc. as required 70 watts									8.00	8.00	54100.00	432800.00				432800.00	432800.00	0.00
																	13427.20	0.00	0.00	0.00	13427.20

26	27/5.1.7.1	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 6-32Amps SP								27	27	434	11718.00				11718.00	11718.00	0.00	
27	28/5.2.0.3	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker (**ELMCB**) 240/450V up to 300mA sensitivity on existing wood/panel board 32-40 Amps 4 pole								2	2	2800	5600.00				5600.00	5600.00	0.00	
28	31/5.4.3.2	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop- Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/ Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets 260mmx210mmx116mm								27	27	2054	55458.00				55458.00	55458.00	0.00	
29	5.48	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers.	Each							1	1	4030.00	4030.00				4030.00	4030.00	0.00	
30	26/5.1.3.4	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.100 to 125Amps	Each							1	1	7200	7200.00				7200.00	7200.00	0.00	

	Supply,Installation,TestingandCommissioningofLEDRGB/RGBWLinearWallWasherluminaireforFacadelightingwithaluminiumextrudedhousing,offollowingwattage. Luminaireshallbecapableofproducingdynamiccolorchanginglightwith16millioncolorsbyDMX/Ethernetbasedcontrol.Thebeamangleofthefittingshallbenarrow,medium,wideorasymmetricaspertherequirement. Luminaireshallbecompletewithdriverandcapableofoperatingatlinevoltagewithoutanyseparatepowersupplyfrom100to270VAC,50Hz,powerfactor>0.9.Fixtureshallbesuitabletooperateatambienttemperaturerangeof-10°Cto+50°CandshallbeIP65andIK06rated.Lifetimeshouldbeatleast L70:50000burninghoursat50°C.Luminaireshallbeconformingto BIS and shall be complete with all necessary accessories required for proper working of fixture including weather proof connection cables, waterproof connectors etc. as required 40 Watts																		
									8.00	8.00	39050.00	312400.00				312400.00	312400.00	0.00	
	EIRL											1125269.42			0.00	1125269.42	1125269.42	0.00	
	PART B TOTAL				793592.00			832430.56				576141.41			0.00	576141.41	0.00	256289.15	
	PART A TOTAL				6611064.00			6935006.06				5883305.90			208795.05	6092100.95	1116368.85	1959273.96	
	Add GST 12% on part B only				95231.04			99891.6672				69136.9692			0	69136.9692	0	30754.698	
	Mislenious				112.96			0				0			0	0	0	0	
	Grand Total Rs				7500000.00			7867328.29				7653853.70			208795.05	7862648.75	2241638.27	2246317.81	

Total Sanctioned Tender Amount Rs **7867328.29**

Total cost of the project after Work slip and EIRL Rs **7862648.75**

Net Savings Amount Rs **4679.53**

Total % Savings to the Tendered Amount **0.059%**

Hence there is no Extra Financial Implication to BBMP.

Agency

AE
Electrical Division

AEE
Electrical Division

Executive Engineer
Electrical Division